

CLAIMS

What is claimed:

1. A method of processing a Web document for display on a user device that

5 is communicatively linked to a computer network, the method comprising:

receiving a copy of the Web document, wherein the Web document includes one or more data entry fields for receiving data;

dividing the Web document into a series of two or more subdocuments, wherein the subdocuments collectively include the data entry fields from the Web document; and

10 sending a first subdocument in the series of subdocuments to the user device, the first subdocument including one or more data entry fields from the Web document.

2. A method as defined in claim 1, additionally comprising:

15 receiving a request from the user device for a second subdocument in the series of subdocuments;

receiving a first data set comprised of data from the data entry fields in the first subdocument;

storing the first data set in a data store;

20 sending the second subdocument to the user device, the second subdocument including one or more data entry fields from the Web document;

receiving a data submission request from the user device, the data submission request including a second data set comprised of data from the data fields in the second subdocument;

retrieving the first data set from the data store; and
sending the first data set and the second data set to a node of the computer
network.

5 3. A method as defined in claim 1, wherein the Web document is written in a
markup language.

10 4. A method as defined in claim 3, wherein the markup language comprises
HyperText Markup Language (HTML).

15 5. A method as defined in claim 3, further comprising:
reviewing one or more tags in the Web document to determine whether the Web
document is a Web form document.

20 6. A method as defined in claim 1, further comprising:
receiving data that describes the capabilities of the user device;
considering the capabilities of the user device when dividing the Web document
into a series of two or more subdocuments.

25 7. A method as defined in claim 6, wherein receiving data that describes the
user device comprises receiving information descriptive of the size of the display screen
of the user device.

8. A method as defined in claim 7, wherein the subdocuments are each sized to fit within the display screen of the user device.

9. A method as defined in claim 1, wherein the one or more data entry fields for receiving data include a field for receiving textual data.

10. A method as defined in claim 1, wherein the one or more data entry fields for receiving data include a drop-down menu.

11. A method of transforming a Web document for display on a user device that is communicatively linked to a computer network, the method comprising:

- receiving a copy of the Web document from a server, wherein the Web document includes one or more data entry fields for receiving data from a user;
- dividing the Web document into a series of subdocuments;
- 15 sending a first subdocument to the user device for display on the user device, the first subdocument including a first subset of data entry fields from the Web document;
- receiving a first set of data from the user device, the first set of data being associated with the data entry fields that were included on the first subdocument;
- storing the first set of data in a data store;
- 20 transmitting a second subdocument to the user device, the second subdocument including a second subset of data entry fields from the Web document;
- re-sending the first subdocument to the user device, wherein the first set of data is inserted into the first subset of data fields.

12. A method as defined in claim 11, additionally comprising:
receiving an instruction from the user device to submit data to a server;
transmitting the first set of data to the server.

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13. A method as defined in claim 11, additionally comprising:
receiving a request from the user device for a subdocument from the series of
subdocuments;
determining whether any stored data is associated with the data entry fields in the
requested subdocument;
if any stored data is associated with the data entry fields in the requested
subdocument, then sending the requested subdocument to the user device including the
data that is associated with the data entry fields in the requested subdocument.

14. A method as defined in claim 11, wherein the series of subdocuments
collectively include all of the data entry fields from the Web document.

15. A method as defined in claim 11, wherein the Web document is written in
a markup language.

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16. A method as defined in claim 15, wherein the markup language comprises
the HyperText Markup Language.

17. A method as defined in claim 15, wherein the subdocuments are written in a markup language that is different from the markup language of the Web document.

18. A method as defined in claim 11, wherein the subdocuments are each sized to fit within a display screen of the user device.

19. A system that transforms a Web document located on a computer network, the system comprising:

content processor means for executing program instructions and receiving a data set; and

a network interface that permits communications between the content processor means and the computer network;

wherein the program instructions executed by the content processor means comprises

receiving a copy of the Web document, wherein the Web document includes one or data entry fields for receiving data,

dividing the Web document into a series of two or more subdocuments, wherein the subdocuments collectively include the data entry fields from the Web document, and

sending a first subdocument in the series of subdocuments to the user device, the first subdocument including one or more data entry fields from the Web document.

20. A system as defined in claim 19, wherein the program instructions executed by the content processor means comprise operations of:

receiving a request from the user device for a second subdocument in the series of subdocuments;

5 receiving a first data set comprised of data from the data entry fields in the first subdocument;

storing the first data set in a data store;

sending the second subdocument to the user device, the second subdocument including one or more data entry fields from the Web document;

10 receiving a data submission request from the user device, the data submission request including a second data set comprised of data from the data fields in the second subdocument;

retrieving the first data set from the data store; and

15 sending the first data set and the second data set to a node of the computer network.

21. A system that transforms a Web document located on a computer network, the system comprising one or more processors that execute program instructions and receive a data set, and:

20 receive a copy of the Web document from a server, wherein the Web document includes one or more data entry fields for receiving data from a user;

divide the Web document into a series of subdocuments;

send a first subdocument to the user device for display on the user device, the first subdocument including a first subset of data entry fields from the Web document;

receive a first set of data from the user device, the first set of data being associated with the data entry fields that were included on the first subdocument;

5 store the first set of data in a data store;

transmit a second subdocument to the user device, the second subdocument including a second subset of data entry fields from the Web document; and

re-send the first subdocument to the user device, wherein the first set of data is inserted into the first subset of data fields.

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22. A program product for use in a computer system that executes program steps recorded in a computer-readable media to perform a method for transforming a Web document, the program product comprising:

a recordable media;

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a program of computer-readable instructions executable by the computer system to perform operations comprising:

receiving a copy of the Web document, wherein the Web document includes one or data entry fields for receiving data;

dividing the Web document into a series of two or more subdocuments, wherein

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the subdocuments collectively include the data entry fields from the Web document; and

sending a first subdocument in the series of subdocuments to the user device, the first subdocument including one or more data entry fields from the Web document.

23. A program product as defined in claim 22, wherein program of computer-readable instructions executable by the computer system to perform operations further comprising:

receiving a request from the user device for a second subdocument in the series of
5 subdocuments;

receiving a first data set comprised of data from the data entry fields in the first subdocument;

storing the first data set in a data store;

sending the second subdocument to the user device, the second subdocument

10 including one or more data entry fields from the Web document;

receiving a data submission request from the user device, the data submission request including a second data set comprised of data from the data fields in the second subdocument;

retrieving the first data set from the data store; and

15 sending the first data set and the second data set to a node of the computer network.

24. A program product for use in a computer system that executes program steps recorded in a computer-readable media to perform a method for transforming a Web
20 document, the program product comprising:

a recordable media;

a program of computer-readable instructions executable by the computer system to perform operations comprising:

receiving a copy of the Web document from a server, wherein the Web document includes one or more data entry fields for receiving data from a user;

dividing the Web document into a series of subdocuments;

sending a first subdocument to the user device for display on the user device, the

5 first subdocument including a first subset of data entry fields from the Web document;

receiving a first set of data from the user device, the first set of data being associated with the data entry fields that were included on the first subdocument;

storing the first set of data in a data store;

transmitting a second subdocument to the user device, the second subdocument
10 including a second subset of data entry fields from the Web document;

re-sending the first subdocument to the user device, wherein the first set of data is inserted into the first subset of data fields.

25. A program product as defined in claim 24, wherein program of computer-
15 readable instructions executable by the computer system to perform operations further comprising:

receiving a request from the user device for a subdocument from the series of subdocuments;

determining whether any stored data is associated with the data entry fields in the
20 requested subdocument;

if any stored data is associated with the data entry fields in the requested subdocument, then sending the requested subdocument to the user device including the data that is associated with the data entry fields in the requested subdocument.